



INDUSTRIAL VACUUM SOLUTIONS FOR STEEL PLANTS



COMMON PROBLEMS IN STEEL PLANTS

In steel mills and foundries, dust is a serious problem. For this reason, the cleanliness of the working environment becomes of paramount importance, as it improves the productivity, efficiency and safety of the entire production process.



CRANE • SUSPENDED DUST

To reduce the oxidation of steel and additives, a large quantity of lime is injected. When the electric arc is activated, dust escapes and accumulates in the upper parts of the plant, and in particular on the overhead crane rails, gangways, and electrical panels of the structure. To avoid breakdowns and sudden stops in production, those deposits must be constantly removed.

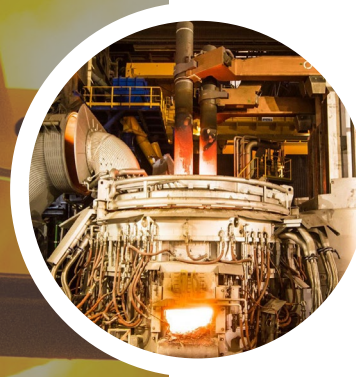


STEEL COOLING • CALAMINE AND PROCESSING WASTE

Calamine accumulates in large quantities on cooling lines, rollers, and the pit beneath the lines.

It is possible to estimate more than 25 tonnes of calamine residue produced each week.

It must be removed to avoid unplanned production stoppages and to ensure the smooth operation of the machinery.



ELECTRIC ARC FURNACE (EAF) • RESIDUES FROM COMBUSTION

On the top of the oven, there is a continuous and consistent accumulation of dust and residual materials that must be removed regularly to allow proper heat exchange, avoid product contamination and allow the oven opening mechanisms to function properly.

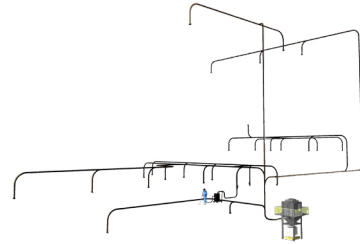
DHV DELFIN SPECIFIC SOLUTIONS

The DHV product range is designed to meet any difficult challenge. The range meets the needs of heavy industries to tackle the problem of large amounts of dust, spillages and residues, which constantly undermine their production efficiency.

CRANE CLEANING

A powerful dedicated vacuum system with fixed piping along the crane rails is the most suitable solution for removing a large amount of dust on a regular basis.

All the material is transferred and collected in a large disposable bag placed on the ground. The same system can also be used for overhead crane maintenance.



CLEANING OF COOLING ZONE

Only a powerful suction unit with a lobe pump (which achieves 85% vacuum) can easily collect large quantities of heavy material such as calamine. The material can be discharged into a container, big bag, or directly into an evacuation container.



EAF CLEANING

The cleaning operation can be carried out with a heavy-duty mobile suction solution or with a dedicated fixed installation (pipes + fixed equipment).



Delfin is a global leader in the manufacturing of industrial vacuum equipment, ranging from portable vacuums for industrial cleaning, to central vacuum systems and engineered solutions, to pneumatic conveying systems. Our mission is to create value by designing innovative solutions that improve efficiency, safety, and productivity. Our aim is to use our expertise to help our customers to achieve their goals.



Delfin Srl • Strada della Merla 49/A • 10036 Settimo T.se (To) Italy
Tel +39 011 800 55 00
delfin@delfinvacuums.it • delfinvacuums.com